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NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
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NEWS 19 Jun 03 New e-mail delivery for search results now available  
NEWS 20 Jun 10 MEDLINE Reload  
NEWS 21 Jun 10 PCTFULL has been reloaded  
NEWS 22 Jul 02 FOREGE no longer contains STANDARDS file segment  
  
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AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
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FILE 'HOME' ENTERED AT 07:17:33 ON 03 JUL 2002

=> fil caplus uspatfull biosis embase kosmet  
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FILE 'KOSMET' ENTERED AT 07:17:45 ON 03 JUL 2002  
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Chemists

=> s alumina particle  
L1 1846 ALUMINA PARTICLE

=> s flake or flaky  
L2 30250 FLAKE OR FLAKY

=> s phosphoric or p2o5  
L3 242308 PHOSPHORIC OR P2O5

=> l1(s)l2  
L1(S)L2 IS NOT A RECOGNIZED COMMAND  
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=> s l1(s)l2  
L4 1 L1(S) L2

=> d ibib abs

L4 ANSWER 1 OF 1 USPATFULL  
ACCESSION NUMBER: 2001:211918 USPATFULL  
TITLE: Flake-like alfa-alumina particles and method for  
producing the same  
INVENTOR(S): Fukuda, Takeshi, Kurobe-shi, Japan  
Shido, Ryuichi, Kurobe-shi, Japan  
PATENT ASSIGNEE(S): YKK Corporation (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001043910	A1	20011122
APPLICATION INFO.:	US 2001-834651	A1	20010416 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-114625	20000417
	JP 2001-40237	20010216
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC,	
20005-3315		
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	844	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Flake-like .alpha.-alumina particles having an average major diameter of

0.5 to 25 .mu.m and an aspect ratio, expressed by particle major diameter/average thickness, of greater than 50 to 2000 and having a thin

flat form. The flake-like .alpha.-alumina particles are produced by a hydrothermal synthesis process of an aqueous slurry in which the slurry comprises an alumina hydrate and/or an alumina gel, having a particle size of not more than 2 .mu.m and a maximum size of not more than 5.0 .mu.m and phosphoric acid ions in an amount of 1.0.times.10.sup.-3 to 1.0.times.10.sup.-1 mol per mol of the alumina hydrate and/or alumina gel. The flake-like .alpha.-alumina particles exhibit good dispersibility when being kneaded as fillers or pigments in rubbers or plastics or as coating agents with a resin and also can be easily dispersed as primary particles in aqueous solvent with high dispersion stability when added to an aqueous slurry of precision abrasives or cosmetics. The particles are desirable in providing cosmetics with good smoothness, tackiness to the skin and spreadability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 11(p)12

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L5(P)L11'  
L5 1 L1(P) L2

=> s 11(l)12

L6 25 L1(L) L2

=> s alumina

L7 344463 ALUMINA

=> s 17(s)12

L8 913 L7(S) L2

=> s particle or particles

L9 1556446 PARTICLE OR PARTICLES

=> s 19(p)18

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L53(P)L47'  
L10 209 L9(P) L8

=> s 19(s)17(s)12

L11 204 L9(S) L7(S) L2

=> dup rem l11

DUPLICATE IS NOT AVAILABLE IN 'KOSMET'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L11

L12 204 DUP REM L11 (0 DUPLICATES REMOVED)

=> d his

(FILE 'HOME' ENTERED AT 07:17:33 ON 03 JUL 2002)

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, KOSMET' ENTERED AT 07:17:45 ON  
03 JUL 2002

L1 1846 S ALUMINA PARTICLE  
L2 30250 S FLAKE OR FLAKY  
L3 242308 S PHOSPHORIC OR P2O5  
L4 1 S L1(S)L2  
L5 1 S L1(P)L2  
L6 25 S L1(L)L2  
L7 344463 S ALUMINA  
L8 913 S L7(S)L2  
L9 1556446 S PARTICLE OR PARTICLES  
L10 209 S L9(P)L8  
L11 204 S L9(S)L7(S)L2  
L12 204 DUP REM L11 (0 DUPLICATES REMOVED)

=> s alumina particle or alumina particles

L13 7453 ALUMINA PARTICLE OR ALUMINA PARTICLES

=> s l13(s)l2

L14 23 L13(S) L2

=> dup rem l14

DUPLICATE IS NOT AVAILABLE IN 'KOSMET'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L14

L15 23 DUP REM L14 (0 DUPLICATES REMOVED)

=> d ibib abs

L15 ANSWER 1 OF 23 USPATFULL

ACCESSION NUMBER: 2002:133304 USPATFULL

TITLE: Recording medium, image forming process using the  
recording medium and production process of the  
recording medium

INVENTOR(S): Misuda, Katsutoshi, Kanagawa, JAPAN  
Asaoka, Masanobu, Kanagawa, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002068154	A1	20020606
APPLICATION INFO.:	US 2001-945760	A1	20010905 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-272051	20000907
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FITZPATRICK CELLA HARPER & SCINTO, 30 ROCKEFELLER	

PLAZA, NEW YORK, NY, 10112  
NUMBER OF CLAIMS: 12  
EXEMPLARY CLAIM: 1  
LINE COUNT: 524

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein is a recording medium comprising a base material and an

ink-receiving layer containing a particulate material provided on the base material, wherein the particulate material comprises aluminum

oxide

particles of the .gamma.-crystal structure, the average particle diameter of the aluminum oxide particles is at least 0.21 .mu.m, but at most 1.0 .mu.m, at least 90% of all the aluminum oxide particles have a particle diameter of at most 1.0 .mu.m, and the specular glossiness of the surface of the ink-receiving layer is at least 50% as measured at 75.degree..

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 2 ibib abs

L15 ANSWER 2 OF 23 USPATFULL

ACCESSION NUMBER: 2002:25621 USPATFULL

TITLE: Method and apparatus for treating water

INVENTOR(S): McKay, Scott, San Antonio, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002014460	A1	20020207
APPLICATION INFO.:	US 2001-818272	A1	20010327 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-263697, filed on 5 Mar 1999, GRANTED, Pat. No. US 6207060		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	VIDAS, ARRETT & STEINKRAUS, P.A., 6109 BLUE CIRCLE DRIVE, SUITE 2000, MINNETONKA, MN, 55343-9185		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Page(s)		
LINE COUNT:	1298		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The inventive method and apparatus for treating water and water systems.

The apparatus and method also assures the retention of calcium in drinking water provided to an animal by supplying water to a water feed line which is connected to a drinking device, oxidizing the water to retain calcium in the water in solution, ionizing the water using copper/zinc electrodes, the ionization sanitizing the water and providing residual copper and zinc ions which act as an algicide and a biocide, and providing the ionized oxidized drinking water which retains

calcium in solution to the animal for drinking.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 3 ibib abs

L15 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:780429 CAPLUS  
 DOCUMENT NUMBER: 135:305829  
 TITLE: **Flake-like alpha-alumina particles** and their production  
 INVENTOR(S): Fukuda, Takeshi; Shido, Ryuichi  
 PATENT ASSIGNEE(S): YKK Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1148028	A2	20011024	EP 2001-109347	20010412
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001302452	A2	20011031	JP 2000-114625	20000417
US 2001043910	A1	20011122	US 2001-834651	20010416
PRIORITY APPLN. INFO.:			JP 2000-114625	A 20000417
			JP 2001-40237	A 20010216

AB Flake-like .alpha.-Al<sub>2</sub>O<sub>3</sub> particles having an av. major diam. of 0.5-25 .mu.m and an aspect ratio, expressed by particle major diam./av. thickness, of greater than 50 to 2000 and having a thin flat form. The flake-like .alpha.-Al<sub>2</sub>O<sub>3</sub> particles are produced by a hydrothermal synthesis process of an aq. slurry in which the slurry comprises an alumina hydrate and/or an alumina gel, having a particle size of .ltoreq.2 .mu.m and a max. size of .ltoreq.5.0 .mu.m and phosphoric acid ions in an amt. of 1.0 x 10<sup>-3</sup> to 1.0 x 10<sup>-1</sup> mol per mol of the alumina hydrate and/or alumina gel. The flake-like .alpha.-Al<sub>2</sub>O<sub>3</sub> particles exhibit good dispersibility during mixing as fillers or pigments in rubbers or plastics or as coating agents with a resin and also can be easily dispersed as primary particles in an aq. solvent with high dispersion stability when added to an aq. slurry of precision abrasives or cosmetics. The particles are desirable in providing cosmetics with good smoothness, tackiness to the skin and spreadability.

=> d 4 ibib abs

L15 ANSWER 4 OF 23 USPATFULL

ACCESSION NUMBER: 2001:211918 USPATFULL  
 TITLE: **Flake-like alfa-alumina particles** and method for producing the same  
 INVENTOR(S): Fukuda, Takeshi, Kurobe-shi, Japan  
 Shido, Ryuichi, Kurobe-shi, Japan  
 PATENT ASSIGNEE(S): YKK Corporation (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001043910	A1	20011122
APPLICATION INFO.:	US 2001-834651	A1	20010416 (9)

NUMBER	DATE

PRIORITY INFORMATION: JP 2000-114625 20000417  
JP 2001-40237 20010216  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow,, Garrett & Dunner,  
L.L.P., 1300 I Street, N.W., Washington, DC,

20005-3315

NUMBER OF CLAIMS: 10  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 1 Drawing Page(s)  
LINE COUNT: 844

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Flake-like .alpha.-alumina particles**  
having an average major diameter of 0.5 to 25 .mu.m and an aspect  
ratio,

expressed by particle major diameter/average thickness, of greater than  
50 to 2000 and having a thin flat form. The **flake-like**  
**.alpha.-alumina particles** are produced by a  
hydrothermal synthesis process of an aqueous slurry in which the slurry  
comprises an alumina hydrate and/or an alumina gel, having a particle  
size of not more than 2 .mu.m and a maximum size of not more than 5.0  
.mu.m and phosphoric acid ions in an amount of 1.0.times.10.sup.-3 to  
1.0.times.10.sup.-1 mol per mol of the alumina hydrate and/or alumina  
gel. The **flake-like .alpha.-alumina**  
**particles** exhibit good dispersibility when being kneaded as  
fillers or pigments in rubbers or plastics or as coating agents with a  
resin and also can be easily dispersed as primary particles in aqueous  
solvent with high dispersion stability when added to an aqueous slurry  
of precision abrasives or cosmetics. The particles are desirable in  
providing cosmetics with good smoothness, tackiness to the skin and  
spreadability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 5 ibib abs

L15 ANSWER 5 OF 23 USPATFULL

ACCESSION NUMBER: 2000:121037 USPATFULL  
TITLE: Multilayered gas sensor  
INVENTOR(S): Hatfield, Thomas N., Mishawaka, IN, United States  
PATENT ASSIGNEE(S): CTS Corporation, Elkhart, IN, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6117393		20000912
APPLICATION INFO.:	US 1997-783857		19970116 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Soderquist, Arlen		
LEGAL REPRESENTATIVE:	Starkweather, Michael W., Tychonevich, Daniel		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	338		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A multilayered gas sensor for detecting the presence of gases in air.  
In

particular, sensors are described for sensing hydrocarbons and nitrogen

oxides. An additional feature of the invention is to provide a device that is suitable for sensing gases in the harsh environment of an automobile exhaust system. The device features a ceramic substrate and  
a glass layer to adhere a catalyst support to the substrate. A catalyst layer of either platinum or rhodium is deposited on the catalyst support and a thermally sensitive resistor element detects reactions of hydrocarbons or nitrogen oxides on the corresponding catalyst.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 5 kwic

L15 ANSWER 5 OF 23 USPATFULL

DETD . . . firing profile for the glass employed. This will reflow the glass and cause it to firmly adhere to both the **alumina particles** and substrate 20. It is important that the glass bond very firmly to both the substrate and catalytic support because if the **alumina particles flake** off, the sensor will no longer function. In principal, any glass film formation, including many commercially available varieties such as. . .

=> d 6 ibib abs

L15 ANSWER 6 OF 23 USPATFULL

ACCESSION NUMBER: 2000:97843 USPATFULL

TITLE: Cast coated paper for ink jet recording, process for producing the paper and ink jet recording method using the paper

INVENTOR(S): Imabeppu, Katsuyoshi, Itami, Japan  
Asano, Shinichi, Nishinomiya, Japan  
Ohashi, Hiroyuki, Neyagawa, Japan  
Nojima, Kazuhiro, Kobe, Japan  
Suzuki, Eiichi, Asaka, Japan  
Sakaki, Mamoru, Yamato, Japan

PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)  
Oji Paper Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6096157		20000801
APPLICATION INFO.:	US 1998-12556		19980123 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-545154, filed on 19 Oct 1995, now patented, Pat. No. US 5741584		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1994-255757	19941020
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dixon, Merrick	
LEGAL REPRESENTATIVE:	Fitzpatrick, Cella, Harper & Scinto	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)	



LINE COUNT: 768

AB A cast coated paper for ink jet recording is prepared by a process including the steps of: forming on a base paper an undercoating layer containing alumina having a bulk density of at most 0.2 g/cm.<sup>3</sup> and an adhesive, applying onto the undercoating layer an overcoating liquid containing a resin to form a wet overcoating layer, and pressing the wet overcoating layer against a heated drum having a mirror-finished surface to dry the overcoating layer, thereby forming a cast-coating layer. The resultant cast coated paper shows not only good gloss and ink jet recording performances (inclusive of ink absorptivity and recorded image density), but also good weather-fastness of recorded images.

=> d 6 kwic

L15 ANSWER 6 OF 23 USPATFULL

DETD Alumina mostly has plate-like structure, but it is preferred to use **flaky alumina particles** because such **flaky** alumina can easily trap air between the particles.

=> d 7 ibib abs

L15 ANSWER 7 OF 23 USPATFULL

ACCESSION NUMBER: 2000:80388 USPATFULL

TITLE: Process for producing fine **flaky alumina particles** and alumina-based plastic material

INVENTOR(S): Shibasaki, Yasuo, Nagoya, Japan  
Oda, Kiichi, Nagoya, Japan  
Fukuda, Takeshi, Kurobe, Japan

PATENT ASSIGNEE(S): Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Tokyo, Japan (non-U.S. corporation)  
YKK Corporation, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6080380		20000627
APPLICATION INFO.:	US 1994-301734		19940907 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-907933, filed on 1 Jul 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1991-193668	19910709
	JP 1991-282015	19911003
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bos, Steven	
LEGAL REPRESENTATIVE:	Flynn, Thiel, Boutell & Tanis, P.C.	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	312	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a process for producing fine **flaky alumina particles** which are suitable as a raw material for ceramics, a pigment for paint, etc., wherein aluminum hydroxide or alumina hydrate having a particle size regulated to the order of submicron is subjected to a hydrothermal treatment in water or an aqueous alkali solution at a temperature of 350.degree. C. or above and under a pressure of 200 kg/cm.sup.2 or below. The present invention further provides an alumina-based plastic material which is produced by kneading the aforesaid fine **flaky particles** with an organic water holding material and water. Methylcellulose, polyvinyl alcohol, carboxymethylcellulose, polyethylene glycol, etc. are preferably used as the organic water holding agent. The alumina-based plastic material has a high plasticity, so that there is no need of using a large amount of a binder. Thus a dense molded article having stable properties can be prepared.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 8 ibib abs

L15 ANSWER 8 OF 23 USPATFULL

ACCESSION NUMBER: 1999:31032 USPATFULL  
TITLE: Gas sensor with orientation insensitivity  
INVENTOR(S): Newman, Robert L., Osceola, IN, United States  
Blakesley, Patrick B., Goshen, IN, United States  
PATENT ASSIGNEE(S): CTS Corporation, Elkhart, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5880354		19990309
APPLICATION INFO.:	US 1997-873219		19970611 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Williams, Hezron E.		
ASSISTANT EXAMINER:	Wiggins, J. David		
LEGAL REPRESENTATIVE:	Starkweather, Michael W.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	648		

AB A gas sensor for being placed into a gas stream such that the gas sensor

is insensitive to any specific rotational orientation about a longitudinal axis of the sensor within the gas stream. The sensor includes 1) a base having an axis that is perpendicular to the gas stream, 2) a sensor element on the base, 3) a catalyzed sensor element on the base proximate the sensor element, for creating an exothermic reaction upon contacting the gas stream thereby forming a heated gas stream portion, and 4) the catalyzed sensor element and the sensor element are positioned on the base with a sufficient axial separation therebetween so that as the base rotates about the axis, the heated gas stream portion will not contact the sensor element. In particular, the base has a second axis being perpendicular to the axis and separating the sensor element from the catalyzed sensor element. Additionally, the invention provides a device that may have both the sensor element and the catalyzed sensor element including a longitudinal axis. Wherein, both the sensor element and the catalyzed sensor element may have many

different shapes. Both the sensor element and the catalyzed sensor element may have two or three sides that are coextensive with at least one void. As a result of having a void the base may include a bridge that connects at least one side of the sensor element and the catalyzed sensor element to the base.

=> d 9 ibib abs

L15 ANSWER 9 OF 23 USPATFULL

ACCESSION NUMBER: 1998:135287 USPATFULL  
TITLE: Gas sensor with multiple exposed active elements  
INVENTOR(S): Newman, Robert L., Osceola, IN, United States  
PATENT ASSIGNEE(S): CTS Corporation, Elkhart, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5831146		19981103
APPLICATION INFO.:	US 1997-872817		19970611 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Williams, Hezron E.		
ASSISTANT EXAMINER:	Wiggins, J. David		
LEGAL REPRESENTATIVE:	Starkweather, Michael W., Tychonievich, Dan, Bourgeois, Mark P.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	726		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A combustible gas detector or sensor having catalytic coated resistance sensing elements that uses a wheatstone bridge to sense the presence and concentration of any combustible gases in a gas stream that chemically react with such catalytic coatings. Wherein there is a power supply node electrically coupling one end of a first and second bridge of the wheatstone bridge. There is a ground node electrically coupling the first and second bridge at another end. There is a first and second metered node located on the first and second bridge respectively. There is a first catalytic sensor element, located on the first bridge between the power node and first metered node. There is a second catalytic sensor element, located on the second bridge between the ground node and second metered node. There is a first reference sensor element, located on the first bridge and in series with the first catalytic sensor element, and coupled between the first metered node and the ground node. Finally, there is a second reference sensor element, located on the second bridge and in series with the second catalytic sensor element, and coupled between the second metered node and the power node the geometry and design of the gas detector has the two catalytic sensing elements and two reference sensing elements being spatially separated and positioned on a base capable of being rotated along an axis so that as the base rotates about the axis the heated gas stream will not contact the first and second reference sensing elements.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 10 ibib abs

L15 ANSWER 10 OF 23 USPATFULL

ACCESSION NUMBER: 1998:82295 USPATFULL  
TITLE: Gas sensor having a compounded catalytic structure  
INVENTOR(S): Hatfield, Thomas N., Mishawaka, IN, United States  
PATENT ASSIGNEE(S): CTS Corporation, Elkhart, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5779980		19980714
APPLICATION INFO.:	US 1997-783858		19970116 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Soderquist, Arlen		
LEGAL REPRESENTATIVE:	Starkweather, Michael W., Tychonievich, Daniel		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	376		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A gas sensor for detecting the presence of gases in air. In particular, sensors are described that have a compound catalytic support structure and are suitable for sensing hydrocarbons and nitrogen oxides. The device features a ceramic substrate having a temperature sensitive resistor on one surface. A mixture of ceramic particles and glass powder are applied over the substrate and resistor and fired so that the glass flows and adheres the ceramic particles to the substrate. A catalyst layer of either platinum or rhodium is deposited on the catalyst support and a thermally sensitive resistor element detects reactions of hydrocarbons or nitrogen oxides on the corresponding catalyst. The invention is suitable for sensing gases in the harsh environment of an automobile exhaust system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 11 ibib abs

L15 ANSWER 11 OF 23 USPATFULL

ACCESSION NUMBER: 1998:42158 USPATFULL  
TITLE: Cast coated paper for ink jet recording, process for producing the paper and ink jet recording method using the paper  
INVENTOR(S): Imabeppu, Katsuyoshi, Itami, Japan  
Asano, Shinichi, Nishinomiya, Japan  
Ohashi, Hiroyuki, Neyagawa, Japan  
Nojima, Kazuhiro, Kobe, Japan  
Suzuki, Eiichi, Asaka, Japan  
Sakaki, Mamoru, Yamato, Japan  
PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)  
Oji Paper Co., Ltd., Tokyo, Japan (non-U.S. corporation)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5741584		19980421
APPLICATION INFO.:	US 1995-545154		19951019 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1994-255757	19941020
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Hess, Bruce H.	
LEGAL REPRESENTATIVE:	Fitzpatrick, Cella, Harper & Scinto	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	19	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	877	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A cast coated paper for ink jet recording is prepared by a process including the steps of: forming on a base paper an undercoating layer comprising alumina having a bulk density of at most 0.2 g/cm<sup>3</sup> and an adhesive, applying onto the undercoating layer an overcoating liquid comprising a resin to form a wet overcoating layer, and pressing the wet overcoating layer against a heated drum having a mirror-finished surface to dry the overcoating layer, thereby forming a cast-coating layer. The resultant cast coated paper shows not only good gloss and ink jet recording performances (inclusive of ink absorptivity and recorded image density), but also good weather-fastness of recorded images.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 12 ibib abs

L15 ANSWER 12 OF 23 USPATFULL  
ACCESSION NUMBER: 96:118232 USPATFULL  
TITLE: Process for producing fine **flaky alumina particles** and alumina-based plastic material  
INVENTOR(S): Shibasaki, Yasuo, Nagoya, Japan  
Oda, Kiichi, Nagoya, Japan  
Fukuda, Takeshi, Kurobe, Japan  
PATENT ASSIGNEE(S): Agency Of Industrial Science And Technology, Ministry Of International Trade And Industry, Tokyo, Japan (non-U.S. corporation)  
YKK Corporation, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5587010		19961224
APPLICATION INFO.:	US 1995-491114		19950616 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-301734, filed on 7 Sep 1994 which is a continuation of Ser. No. US 1992-907933, filed on 1 Jul 1992, now abandoned		

NUMBER	DATE
--------	------

PRIORITY INFORMATION: JP 1991-193668 19910709  
 JP 1991-282015 19911003  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: Granted  
 PRIMARY EXAMINER: Brunsman, David  
 LEGAL REPRESENTATIVE: Flynn, Thiel, Boutell & Tanis, P.C.  
 NUMBER OF CLAIMS: 4  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)  
 LINE COUNT: 317

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a process for producing fine  
**flaky alumina particles** suitable as a raw  
 material for ceramics, a pigment for paint and etc., wherein aluminum  
 hydroxide or alumina hydrate having a particle size regulated to the  
 order of submicron is subjected to a hydrothermal treatment in water or  
 an aqueous alkali solution at a temperature of 350.degree. C. or above  
 under a pressure of 200 kg/cm.sup.2 or below. The present invention  
 further provides an alumina-based plastic material which is produced by  
 kneading the aforesaid fine **flaky** particles with an organic  
 water holding material and water. Methylcellulose, polyvinyl alcohol,  
 carboxymethylcellulose, polyethylene glycol, etc. are preferably used  
 as the organic water holding agent. The alumina-based plastic material has  
 a high plasticity, so that there is no need of using a large amount of  
 a binder. Thus a dense molded article having stable properties can be  
 prepared.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 13 ibib abs

L15 ANSWER 13 OF 23 USPATFULL

ACCESSION NUMBER: 95:27270 USPATFULL  
 TITLE: Fine flaky boehmite particles and process for the  
 preparation of the same  
 INVENTOR(S): Fukuda, Takeshi, Kurobe, Japan  
 PATENT ASSIGNEE(S): Yoshida Kogyo K.K., Tokyo, Japan (non-U.S.  
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5401703		19950328
APPLICATION INFO.:	US 1993-169380		19931217 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-27331, filed on 5 Mar 1993, now patented, Pat. No. US 5306680		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1992-74504	19920330
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bell, Mark L.	
ASSISTANT EXAMINER:	Bonner, C. M.	
LEGAL REPRESENTATIVE:	Flynn, Thiel, Boutell & Tanis	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 3 Drawing Page(s)  
LINE COUNT: 281

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Fine **flaky** boehmite particles which have an orthorhombic crystal form and a specified crystal face grown in the form of a flat plate, and a process for the preparation of fine **flaky** boehmite particles which comprises subjecting aluminum hydroxide or hydrated alumina having a particle size adjusted to the order of submicrons to hydrothermal treatment in water or an aqueous alkali solution at a temperature of 150.degree. C. or above under a pressure of 100 atm or below. The fine **flaky** boehmite particles are useful as a starting material for the preparation of fine **flaky alumina particles** or as a filler suitable for a pigment for coating materials, a filler for rubbers and plastics and a coating material for paper making.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 14 ibib abs

L15 ANSWER 14 OF 23 USPATFULL

ACCESSION NUMBER: 94:42319 USPATFULL

TITLE: Process for the preparation of ceramic flakes, fibers, and grains from ceramic sols

INVENTOR(S): Coblenz, William S., Arlington, VA, United States  
Kavanaugh, Michael D., North Grafton, MA, United States

PATENT ASSIGNEE(S): Saint Gobain/Norton Industrial Ceramics Corp.,  
Worcester, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5312791		19940517
APPLICATION INFO.:	US 1992-933161		19920821 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Group, Karl		
ASSISTANT EXAMINER:	Wright, A.		
LEGAL REPRESENTATIVE:	Bennett, David		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
LINE COUNT:	433		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing ceramic flake, fiber and grain materials comprising solidifying a hydrated alumina sol, freeze drying the solidified sol and thereafter sintering the freeze dried material is disclosed. Novel ribbed flake material made by the process of the present invention is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 15 ibib abs

L15 ANSWER 15 OF 23 USPATFULL

ACCESSION NUMBER: 94:35556 USPATFULL

TITLE: Fine flaky boehmite particles and process for the preparation of the same

INVENTOR(S) : Fukuda, Takeshi, Kurobe, Japan  
PATENT ASSIGNEE(S) : Yoshida Kogyo K.K., Tokyo, Japan (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5306680		19940426
APPLICATION INFO.:	US 1993-27331		19930305 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1992-74504	19920330
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bell, Mark L.	
ASSISTANT EXAMINER:	Bonner, C.	
LEGAL REPRESENTATIVE:	Flynn, Thiel, Boutell & Tanis	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	276	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Fine **flaky** boehmite particles which have an orthorhombic crystal form and a specified crystal face grown in the form of a flat plate, and a process for the preparation of fine **flaky** boehmite particles which comprises subjecting aluminum hydroxide or hydrated alumina having a particle size adjusted to the order of submicron to hydrothermal treatment in water or an aqueous alkali solution at a temperature of 150.degree. C. or above and under a pressure of 100 atm or below. The fine **flaky** boehmite particles are useful as a starting material for the preparation of fine **flaky alumina particles** or as a filler suitable for a pigment for coating materials, a filler for rubbers and plastics and a coating material for paper making.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 16 ibib abs

L15 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1993:150486 CAPLUS  
DOCUMENT NUMBER: 118:150486  
TITLE: Manufacture of fine **flaky alumina particles** and alumina-based plastic materials  
INVENTOR(S) : Shibasaki, Yasuo; Oda, Kiichi; Fukuda, Takeshi  
PATENT ASSIGNEE(S) : Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Japan; Yoshida Kogyo K.K.  
SOURCE: Eur. Pat. Appl., 8 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 522519	A2	19930113	EP 1992-111532	19920708
EP 522519	A3	19930609		



EP 522519 B1 19960306  
 R: DE, FR, GB  
 JP 05017132 A2 19930126 JP 1991-193668 19910709  
 JP 07002568 A2 19950106 JP 1991-282015 19911003  
 CA 2073471 AA 19930110 CA 1992-2073471 19920708  
 CA 2073471 C 19980519  
 US 6080380 A 20000627 US 1994-301734 19940907  
 US 5587010 A 19961224 US 1995-491114 19950616  
 PRIORITY APPLN. INFO.: JP 1991-193668 A 19910709  
 JP 1991-282015 A 19911003  
 US 1992-907933 B1 19920701  
 US 1994-301734 A3 19940907

AB Al(OH)3 or Al2O3 hydrate having particle size in the order of submicron  
 is subjected to a hydrothermal treatment in water or an aq. alkali soln. at  
 .gtoreq.350.degree. and .ltoreq.200 kg/cm2 to produce hexagonal flaky  
 particles. The flaky Al2O3 powders and an org. water-holding material  
 and water are kneaded to produce an Al2O3-based plastic material for dense  
 molded articles manuf.

=> d 17 ibib abs

L15 ANSWER 17 OF 23 USPATFULL

ACCESSION NUMBER: 90:94969 USPATFULL  
 TITLE: Coating and compositions  
 INVENTOR(S): Baldi, Alfonso L., Sea Isle City, NJ, United States  
 PATENT ASSIGNEE(S): Alloy Surfaces Company, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4977036		19901211
APPLICATION INFO.:	US 1989-440026		19891121 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1988-205387, filed on 10 Jun 1988, now patented, Pat. No. US 4895609 And		
a	continuation-in-part of Ser. No. US 1988-182718, filed on 18 Apr 1988 And a continuation-in-part of Ser. No. US 1986-862712, filed on 13 May 1986, now patented, Pat. No. US 4871708 And a continuation-in-part of Ser. No. US 1986-830767, filed on 19 Feb 1986, now		
patented,	Pat. No. US 4799979 And a continuation-in-part of Ser. No. US 1985-777755, filed on 19 Sep 1985, now		
abandoned	And a continuation-in-part of Ser. No. US 1985-757606, filed on 22 Jul 1985, now abandoned And a continuation-in-part of Ser. No. US 1985-707656, filed on 4 Mar 1985, now patented, Pat. No. US 4824482 And a continuation-in-part of Ser. No. US 1984-685910, filed on 27 Dec 1984, now patented, Pat. No. US 4820362 And		
a	continuation-in-part of Ser. No. US 1984-584538, filed on 28 Feb 1984, now patented, Pat. No. US 4845139 And		
a	continuation-in-part of Ser. No. US 1983-538541, filed on 3 Oct 1983, now abandoned And a		
continuation-in-part			

of Ser. No. US 1983-479211, filed on 28 Mar 1983, now abandoned And a continuation-in-part of Ser. No. US 1984-632016, filed on 18 Jul 1984, now abandoned And a continuation-in-part of Ser. No. US 1984-605284, filed on 30 Apr 1984, now abandoned And a continuation-in-part of Ser. No. US 1984-571510, filed on 17 Jan 1984, now patented, Pat. No. US 4537927 And

a

continuation-in-part of Ser. No. US 1983-488103, filed on 25 Apr 1983, now patented, Pat. No. US 4615970 And

a

continuation-in-part of Ser. No. US 1982-417214, filed on 13 Sep 1982, now abandoned And a continuation-in-part of Ser. No. US 1982-398830, filed on 16 Jul 1982, now patented, Pat. No. US 4467016 And

a

continuation-in-part of Ser. No. US 1981-302979, filed on 17 Sep 1981, now abandoned And a continuation-in-part of Ser. No. US 1981-281405, filed on 8 Jul 1981, now patented, Pat. No. US 4708913 And a continuation-in-part of Ser. No. US 1981-230333, filed on 2 Feb 1981, now patented, Pat. No. US 4347267 And a continuation-in-part of Ser. No. US 1980-191780, filed on 29 Sep 1980, now abandoned And a continuation-in-part of Ser. No. US 1980-172671, filed on 28 Jul 1980, now patented, Pat. No. US 4435481 And

a

continuation-in-part of Ser. No. US 1979-73539, filed on 7 Sep 1979, now patented, Pat. No. US 4260654

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Lechert, Jr., Stephen J.  
LEGAL REPRESENTATIVE: Connolly and Hutz  
NUMBER OF CLAIMS: 5  
EXEMPLARY CLAIM: 1  
LINE COUNT: 1448

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Workpieces are very rapidly diffusion coated by heating the packed workpieces at a rate that brings the workpieces to diffusion-coating temperature and then completing the diffusion coating, all in less than 50 minutes, then cooling. Workpiece can have top coating layer of aluminum flake covered by a layer of extremely fine alumina or silica

in

a magnesium chromate binder, to provide surface having roughness at least about 10 micro-inches smoother than before the top coating. Used aluminized jet engine hot section members can be reconditioned by a fluoridizing treatment that deoxidizes and also removes residual aluminizing, so that the members can then be repaired if necessary and re-aluminized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 18 ibib abs

L15 ANSWER 18 OF 23 USPATFULL  
ACCESSION NUMBER: 90:81622 USPATFULL  
TITLE: Method for refurbishing used jet engine hot section airfoils  
INVENTOR(S): Baldi, Alfonso L., Wynnewood, PA, United States

PATENT ASSIGNEE(S) : Alloy Surfaces Company, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4965095		19901023
APPLICATION INFO.:	US 1988-289595		19881222 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1988-205387, filed on 10 Jun 1988, now patented, Pat. No. US 4895609 And		
a	continuation-in-part of Ser. No. US 1988-182718, filed on 18 Apr 1988, now abandoned And a		
	continuation-in-part of Ser. No. US 1986-862712, filed on 13 May 1986, now patented, Pat. No. US 4871708 And		
a	continuation-in-part of Ser. No. US 1986-830767, filed on 19 Feb 1986, now patented, Pat. No. US 4799799 And		
a	continuation-in-part of Ser. No. US 1985-757606, filed on 22 Jul 1985, now abandoned And a		
	continuation-in-part of Ser. No. US 1985-707606, filed on 4 Mar 1985, now patented, Pat. No. US 4824482 And a		
	continuation-in-part of Ser. No. US 1984-685910, filed on 27 Dec 1984, now patented, Pat. No. US 4820362 And		
a	continuation-in-part of Ser. No. US 1984-584538, filed on 28 Feb 1984, now patented, Pat. No. US 4845139 And		
a	continuation-in-part of Ser. No. US 1983-538541, filed on 3 Oct 1983, now patented, Pat. No. US 4830931 And a		
	continuation-in-part of Ser. No. US 1983-479211, filed on 28 Mar 1983, now patented, Pat. No. US 4476244		
which	is a continuation of Ser. No. US 1984-632016, filed on 18 Jul 1984, now abandoned which is a continuation of		
	Ser. No. US 1984-605248, filed on 30 Apr 1984, now abandoned which is a continuation of Ser. No. US		
	1984-571510, filed on 17 Jan 1984, now patented, Pat. No. US 4537927 which is a continuation of Ser. No. US		
	1983-488103, filed on 25 Apr 1983, now patented, Pat. No. US 4615920 which is a continuation of Ser. No. US		
	1982-417214, filed on 13 Sep 1982, now abandoned which is a continuation of Ser. No. US 1982-398850, filed on		
is	16 Jul 1982, now patented, Pat. No. US 4467016 which		
	a continuation of Ser. No. US 1981-302979, filed on 17 Sep 1981, now abandoned which is a continuation of		
Ser.	No. US 1981-281405, filed on 8 Jul 1981, now patented, Pat. No. US 4708913 which is a continuation of Ser.		
No.	US 1981-230333, filed on 2 Feb 1981, now patented,		
Pat.	No. US 4347267 which is a continuation of Ser. No. US 1980-191780, filed on 29 Sep 1980, now abandoned which		
	is a continuation of Ser. No. US 1980-172671, filed on 28 Jul 1980, now patented, Pat. No. US 4435481 which		
is	a continuation of Ser. No. US 1979-73539, filed on 7 Sep 1979, now patented, Pat. No. US 4260654		

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Childs, Sadie  
LEGAL REPRESENTATIVE: Connolly & Hutz  
NUMBER OF CLAIMS: 2  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)  
LINE COUNT: 1723

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Workpieces are very rapidly diffusion coated by heating the packed workpiece at a rate that brings the workpiece to diffusion-coating temperature and then completing the diffusion coating, all in less than 50 minutes, then cooling. Workpiece can have top coating layer of aluminum flake covered by a layer of extremely fine alumina or silica in a magnesium chromate binder, to provide surface having roughness at least about 10 micro-inches smoother than before the top coating. Used aluminized jet engine hot section members can be reconditioned by a fluoridizing treatment that deoxidizes and also removes residual aluminizing, so that the members can then be repaired if necessary and re-aluminized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 19 ibib abs

L15 ANSWER 19 OF 23 USPATFULL

ACCESSION NUMBER: 86:56433 USPATFULL  
TITLE: Pyrophoric stainless steel  
INVENTOR(S): Baldi, Alfonso L., Wynnewood, PA, United States  
PATENT ASSIGNEE(S): Alloy Surfaces Company, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4615920		19861007
APPLICATION INFO.:	US 1983-488103		19830425 (6)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1983-479211, filed on 28 Mar 1983 And a continuation-in-part of Ser. No. US 1982-417214, filed on 13 Sep 1982, now abandoned		

And

a continuation-in-part of Ser. No. US 1981-311621, filed on 14 Oct 1981, now abandoned And a continuation-in-part of Ser. No. US 1981-302979, filed on 17 Sep 1981, now abandoned And a continuation-in-part of Ser. No. US 1980-191780, filed on 29 Sep 1980, now abandoned And a continuation-in-part of Ser. No. US 1980-172671, filed on 28 Jul 1980, now patented, Pat. No. US 4435481, issued on 6 Mar 1984 And a continuation-in-part of

Ser.

No. US 1977-851504, filed on 14 Nov 1977 , said Ser. No. 479211 , said Ser. No. 417214 , said Ser.

No.

311621 , said Ser. No. 302979 which is a continuation-in-part of Ser. No. US 1981-238500, filed on 26 Feb 1981, now patented, Pat. No. US 4350719, issued on 21 Sep 1982 And Ser. No. US 1981-230333, filed on 8 Feb 1981, now patented, Pat. No. US

4347267,

issued on 31 Aug 1982 , said Ser. No. 479211 , said  
 Ser. No. 417214 , said Ser. No. 311621 , said  
 Ser. No. 302979 , said Ser. No. 191780 , said  
 Ser. No. 172671 which is a continuation-in-part of  
 Ser. No. US 1979-25456, filed on 30 Mar 1979, now  
 patented, Pat. No. US 4349612, issued on 14 Sep 1982 ,  
 said Ser. No. 238500 , said Ser. No. 230333 ,  
 said Ser. No. 191780 , said Ser. No. 172671  
 which  
 is a continuation-in-part of Ser. No. US 1979-89949,  
 filed on 31 Oct 1979, now abandoned Ser. No. Ser. No.  
 Pat. US 1979-98654, filed on 29 Nov 1979, now patented,  
 No. US 4290391, issued on 22 Sep 1981 And Ser. No. US  
 1979-73539, filed on 7 Sep 1979, now patented, Pat.  
 No. US 4260654, issued on 7 Apr 1981 , said Ser. No.  
 238500 , said Ser. No. 230333 which is a  
 continuation-in-part of Ser. No. 25456 , said Ser.  
 No. 191780 , said Ser. No. 172671 , said Ser.  
 89949 , said Ser. No. 98654 , said Ser. No.  
 73539  
 , said Ser. No. 25456 which is a  
 continuation-in-part of Ser. No. US 1978-963313, filed  
 on 24 Nov 1978, now abandoned Ser. No. Ser. No. US  
 1979-953762, filed on 23 Oct 1979, now patented, Pat.  
 No. US 4241147, issued on 23 Dec 1980 Ser. No. Ser.  
 No. US 1977-809189, filed on 23 Jun 1977, now patented,  
 Pat. No. US 4308160, issued on 29 Dec 1981 And Ser.  
 No. US 1976-752855, filed on 21 Dec 1976, now patented,  
 Pat. No. US 4208453, issued on 17 Jun 1980 , said Ser.  
 No. 851504 , said Ser. No. 963313 , said Ser.  
 No. 953762 which is a continuation-in-part of Ser. No.  
 809189 which is a continuation-in-part of Ser. No.  
 752855 Ser. No. Ser. No. US 1976-694951, filed on 11  
 Jun 1976, now abandoned And Ser. No. US 1975-614834,  
 filed on 19 Sep 1975, now patented, Pat. No. US  
 4141760, issued on 27 Feb 1979 , said Ser. No.  
 614834 which is a continuation-in-part of Ser. No. US  
 1974-446473, filed on 27 Feb 1974, now patented, Pat.  
 No. US 3958046, issued on 18 May 1976 , said Ser. No.  
 302979 , said Ser. No. 238500 , said Ser. No.  
 230333 which is a continuation-in-part of Ser. No.  
 809189  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: Granted  
 PRIMARY EXAMINER: Rutledge, L. Dewayne  
 ASSISTANT EXAMINER: Kastler, S.  
 LEGAL REPRESENTATIVE: Connolly & Hutz  
 NUMBER OF CLAIMS: 5  
 EXEMPLARY CLAIM: 1  
 LINE COUNT: 792  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Workpieces are very rapidly pack diffusion coated by using an excess of  
 energizers in the pack, heating the retort containing the packed  
 workpieces at a rate that brings the workpieces to diffusion-coating

temperature and then completing the diffusion coating, all in less than 50 minutes, then cooling the retort. Workpiece can have top coating layer of aluminum flake covered by a layer of extremely fine alumina or silica in a magnesium chromate binder, to provide surface having roughness at least about 10 micro-inches smoother than before the top coating. More active diffusion coated products are also produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 20 ibib abs

L15 ANSWER 20 OF 23 USPATFULL

ACCESSION NUMBER: 81:19153 USPATFULL

TITLE: Smooth coating

INVENTOR(S): Baldi, Alfonso L., Wynnewood, PA, United States

PATENT ASSIGNEE(S): Alloy Surfaces Company, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4260654		19810407
APPLICATION INFO.:	US 1979-73539		19790907 (6)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1976-752855, filed on 21 Dec 1976, now patented, Pat. No. US 4208453 Ser. No. Ser. No. US 1977-809189, filed on 23 Jun 1977, now Defensive Publication No. Ser. No. Ser. No. US 1977-851504, filed on 14 Nov 1977, now Defensive Publication No. Ser. No. Ser. No. US 1978-963313, filed on 27 Nov 1978, now Defensive Publication No. And Ser. No. US 1978-953762, filed on 23 Oct 1978, now Publication No. , each which is a continuation-in-part of Ser. No. US 1975-614834, filed on 19 Sep 1975, now patented, Pat. No. US 4140760, issued on 27 Feb 1979 , said Ser. No. 752855 Ser. No. Ser. No. 809189		
And	Ser. No. 851504 which is a continuation-in-part of Ser. No. US 1976-694951, filed on 11 Jun 1976, now abandoned , said Ser. No. 614834 which is a continuation-in-part of Ser. No. US 1974-446473, filed on 27 Feb 1974, now patented, Pat. No. US 3958046, issued on 18 May 1976		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kendall, Ralph S.		
LEGAL REPRESENTATIVE:	Connolly and Hutz		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	463		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	Roughening effect of low-temperature diffusion aluminizing of age-hardenable stainless steels, is offset by applying a nickel or cobalt plating not over 0.1 mil thick before the aluminizing.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 21 ibib abs

L15 ANSWER 21 OF 23 USPATFULL

ACCESSION NUMBER: 80:64545 USPATFULL  
TITLE: Diffusion aluminized age-hardenable stainless steel  
INVENTOR(S): Baldi, Alfonso L., Wynnewood, PA, United States  
PATENT ASSIGNEE(S): Alloy Surfaces Company, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4241147		19801223
APPLICATION INFO.:	US 1978-953762		19781023 (5)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1977-851504, filed on 14 Nov 1977, now Defensive Publication No. And Ser. No. US 1977-809189, filed on 23 Jun 1977, now		
Defensive	Publication No. And Ser. No. US 1976-752855, filed on 21 Dec 1976, now patented, Pat. No. US 4208453, issued on 17 Jun 1980 And Ser. No. US 1975-614834, filed on		
19	Sep 1975, now patented, Pat. No. US 4141760, issued on 27 Feb 1979, said Ser. No. 851504, said Ser. No. 809189, said Ser. No. 752855, each which is a continuation-in-part of Ser. No. US 1976-694951, filed on 11 Jun 1976, now abandoned, said Ser. No.		
614834	which is a continuation-in-part of Ser. No. US 1974-446473, filed on 27 Feb 1974, now patented, Pat. No. US 3958046, issued on 18 May 1976		

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Rutledge, L. Dewayne  
ASSISTANT EXAMINER: Saba, W. G.  
LEGAL REPRESENTATIVE: Connolly and Hutz  
NUMBER OF CLAIMS: 5  
EXEMPLARY CLAIM: 1  
LINE COUNT: 324

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Roughening effect of low-temperature diffusion aluminizing of age-hardenable stainless steels, is offset by applying a nickel or cobalt plating not over 0.1 mil thick before the aluminizing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 22 ibib abs

L15 ANSWER 22 OF 23 USPATFULL

ACCESSION NUMBER: 72:38147 USPATFULL  
TITLE: ELECTRICAL INTERCONNECTOR  
INVENTOR(S): Nellis, Stewart, Colts Neck, NJ, United States  
Kopf, Joseph Ellis, Cranford, NJ, United States  
Reti, Adrian R., Cambridge, MA, United States  
PATENT ASSIGNEE(S): Technical Wire Products Inc., Cranford, NJ, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3680037		19720725
APPLICATION INFO.:	US 1970-87172		19701105 (5)

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Champion, Marvin A.  
ASSISTANT EXAMINER: Staab, Lawrence J.  
LEGAL REPRESENTATIVE: Littlepage, Quaintance, Wray & Aisenberg  
NUMBER OF CLAIMS: 13  
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 1 Drawing Page(s)  
LINE COUNT: 281

AB Compressible electrical interconnectors have dielectric holder sheets with compressible conductive plastic rods extending through the sheets. When electrical contacts are pressed against opposite ends of the rods, interconnection is completed.

=> d 23 ibib abs

L15 ANSWER 23 OF 23 USPATFULL

ACCESSION NUMBER: 2002:160180 USPATFULL  
TITLE: Structured boehmite pigment and method for making same  
INVENTOR(S): Xu, Wen-Qing, Macon, GA, United States  
Freeman, Gary M., Macon, GA, United States  
PATENT ASSIGNEE(S): J. M. Huber Corporation, Edison, NJ, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6413308	B1	20020702
APPLICATION INFO.:	US 1999-419665		19991015 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Koslow, C. Melissa		
LEGAL REPRESENTATIVE:	Nieves, Carlos, Goodrich, David Mitchell		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	1081		

AB A structured boehmite pigment which comprises a plurality of alumina monohydrate particles. The pigment is particularly useful as a flatting pigment in paint and as an anti-block agent in plastic film. The boehmite pigment has an aggregate median particle size of about 8 to about 30 microns; a total pore volume of at least about 0.8 ml/g; a differential pore volume of less than about 0.3 ml/g; an oil absorption of about 70 to about 135 m/g; a BET surface area of about 3 to about 20 m.sup.2/g, and a TAPPI brightness of at least about 90.

=> d 24 ibib abs

23 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE

The answer numbers requested are not in the answer set.  
ENTER ANSWER NUMBER OR RANGE (1):end